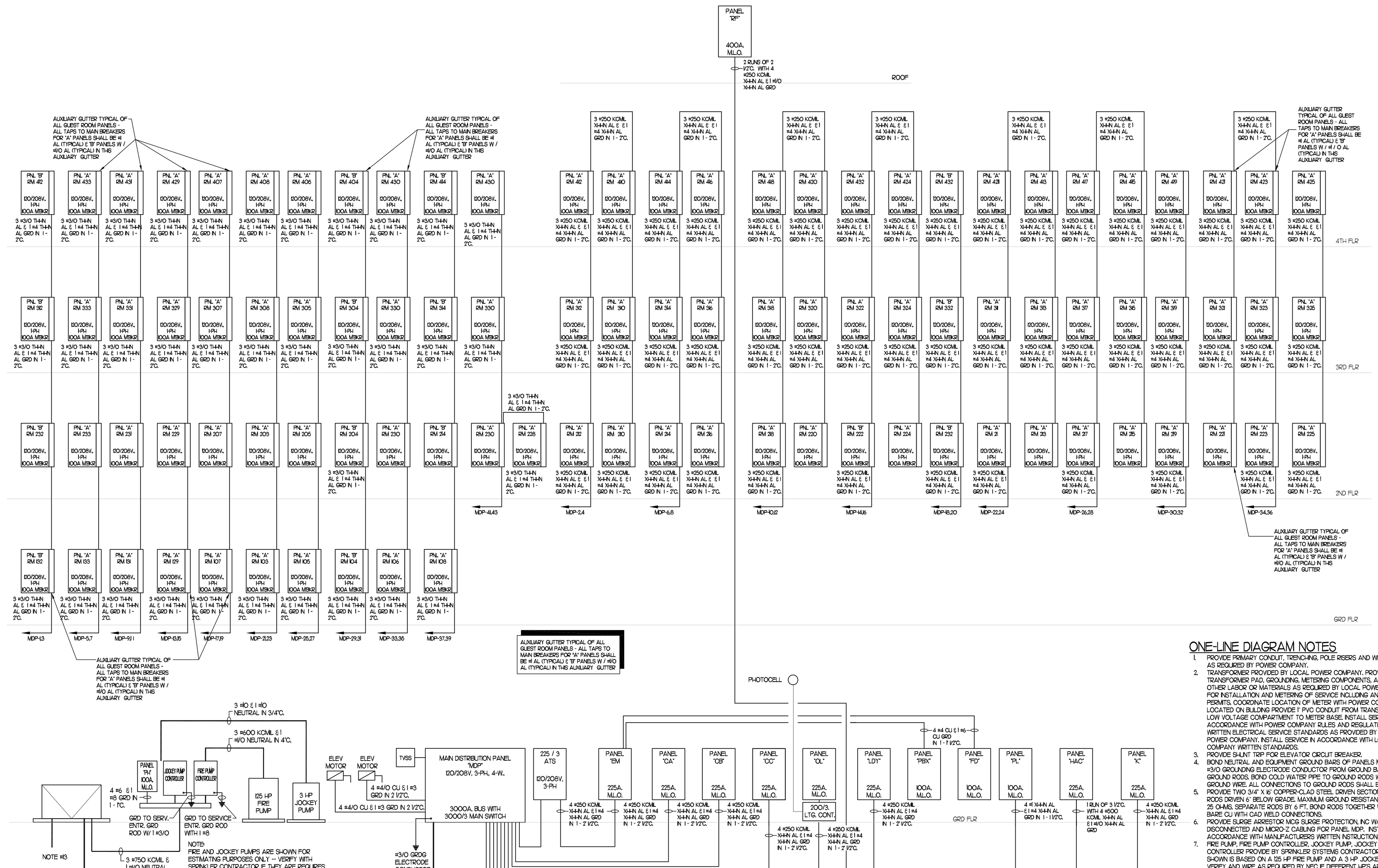

ELECTRICAL PANELBOARD ONE-LINE DIAGRAM

SCHEMATIC: NO SCALE

ONE-LINE DIAGRAM NOTES

1. PROVIDE PRIMARY CONDUIT, TRENCHING, POLE RISERS AND WEATHERHEAD AS REQUIRED BY POWER COMPANY.
2. TRANSFORMER PROVIDED BY LOCAL POWER COMPANY. PROVIDE TRANSFORMER PAD, GROUNDING, METERING COMPONENTS, AND ANY OTHER LABOR OR MATERIALS AS REQUIRED BY LOCAL POWER COMPANY FOR INSTALLATION AND METERING OF SERVICE INCLUDING ANY FEES OR PERMITS. COORDINATE LOCATION OF METER WITH POWER COMPANY. IF LOCATED ON BUILDING PROVIDE 1" PVC CONDUIT FROM TRANSFORMER LOW VOLTAGE COMPARTMENT TO METER BASE. INSTALL SERVICE IN ACCORDANCE WITH POWER COMPANY RULES AND REGULATIONS. OBTAIN WRITTEN ELECTRICAL SERVICE STANDARDS AS PROVIDED BY LOCAL POWER COMPANY. INSTALL SERVICE IN ACCORDANCE WITH LOCAL POWER COMPANY WRITTEN STANDARDS.
3. PROVIDE SHUNT TRIP FOR ELEVATOR CIRCUIT BREAKER.
4. BOND NEUTRAL AND EQUIPMENT GROUND BARS OF PANELS MDP. PROVIDE #3/0 GROUNDING ELECTRODE CONDUCTOR FROM GROUND BARS TO GROUND RODS. BOND COLD WATER PIPE TO GROUND RODS WITH #3/0 CU GROUND WIRE. ALL CONNECTIONS TO GROUND RODS SHALL BE CADWELD.
5. PROVIDE TWO 3/4" X 16' COPPER-CLAD STEEL DRIVEN SECTIONAL GROUND RODS DRIVEN 6' BELOW GRADE. MAXIMUM GROUND RESISTANCE SHALL BE 25 OHMS. SEPARATE RODS BY 6 FT. BOND RODS TOGETHER WITH #3/0 BARE CU WITH CAD WELD CONNECTIONS.
6. PROVIDE SURGE ARRESTOR MCG SURGE PROTECTION, INC W/INTERNAL DISCONNECTED AND MICRO-Z CABLING FOR PANEL MDP. INSTALL IN ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.
7. FIRE PUMP, FIRE PUMP CONTROLLER, JOCKEY PUMP, JOCKEY PUMP CONTROLLER PROVIDE BY SPRINKLER SYSTEMS CONTRACTOR. WIRING AS SHOWN IS BASED ON A 125 HP FIRE PUMP AND A 3 HP JOCKEY PUMP. VERIFY AND WIRE AS REQUIRED BY NEC IF DIFFERENT HP'S ARE REQUIRED.
8. ALL WIRE SIZES ARE BASED ON TYPE "XHHN" ALUMINUM, UNLESS NOTED OTHERWISE.
9. LOCATE LIGHTING CONTACTOR FOR PANEL "OL" NEXT TO THE PANEL AND THE PHOTOCELL CONTROLLING IT ON THE ROOF AS DIRECTED BY THE MANUFACTURER.
10. ELECTRICAL CONTRACTOR SHALL PROVIDE NECESSARY 3"CONDUITS FROM THE TELEPHONE EQUIPMENT TO A POINT AND IN MANNER AS DIRECTED BY LOCAL PHONE COMPANY.
11. ELECTRICAL CONTRACTOR SHALL PROVIDE NECESSARY 3" CONDUITS FROM THE TV EQUIPMENT TO A POINT AND IN MANNER AS DIRECTED BY LOCAL SATELLITE / CABLE TELEVISION COMPANY.
12. PROVIDE UNDERGROUND ELECTRIC PRIMARY SERVICE ENTRANCE CONDUITS AS DIRECTED BY LOCAL POWER COMPANY.

Richard Molenaar
ARCHITECT

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PROJECT NAME:
HOME SUITES BY HILTON
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SHEET TITLE:
ONE-LINE DIAGRAM

PROJECT NO.	LATEST REVISION:
PROJ#	LRD
DRAWN BY: SMJ	CHECKED BY: SMJ
DATE: DATE	SHEET NUMBER: E401